METHOD FOR SPACE-TIME FILTERING OF NOISE IN RADIOGRAPHY

ABSTRACT OF THE DISCLOSURE

To reduce the fluoroscopic noise in an image I acquired at a date t, the pixels of this image are paired with the pixels of an image I' acquired at a date t-1. For a pixel with coordinates (x,y) of the image I, a convolution is done with a core U equivalent to a low-pass filter whose coefficients have been modified as a function of the neighborhood of the pixel with coordinates (x,y) in the image I. For the pixel paired in the image I', a convolution is done with the core U whose coefficients have been modified as a function of the neighborhood of the pixel with coordinates (x,y) in the image I'. The result of the two convolutions is associated linearly in order to obtain a filtered value for the pixel with coordinates (x,y). These operations are repeated for each pixel of the image I.